

# Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] - BSA and Azide free ab247992

KO VALIDATED

Recombinant

RabMAb

7 Images

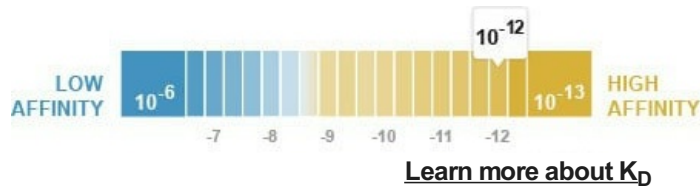
## Overview

<b>Product name</b>	Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR6244] to Interferon alpha/beta receptor 1 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	In mouse and rat tissue lysates this product detects a band in the region of 100 kDa, however we believe this band is non-specific and is not interferon receptor alpha as the immunogen for this antibody shares only 55% homology with the mouse and rat protein. In addition this band also migrates at a lower molecular weight than that detected in human samples.
<b>Tested applications</b>	<p><b>Suitable for:</b> WB</p> <p><b>Unsuitable for:</b> ICC/IF or IHC-P</p>
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab247992 is the carrier-free version of <a href="#">ab124764</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p>

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K <sub>D</sub> )	K <sub>D</sub> = 2.40 x 10 <sup>-12</sup> M



Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6244
Isotype	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab247992 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 90-130 kDa (predicted molecular weight: 64 kDa).

**Application notes** Is unsuitable for ICC/IF or IHC-P.

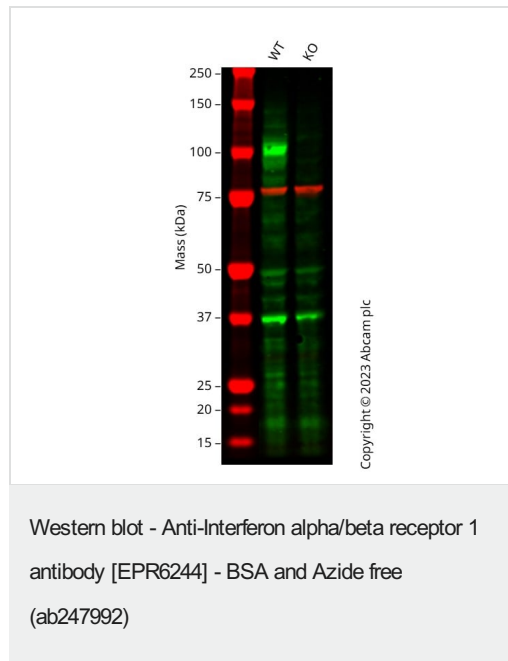
## Target

Function	Associates with IFNAR2 to form the type I interferon receptor. Receptor for interferons alpha and beta. Binding to type I IFNs triggers tyrosine phosphorylation of a number of proteins including JAKs, TYK2, STAT proteins and IFNR alpha- and beta-subunits themselves.
Tissue specificity	IFN receptors are present in all tissues and even on the surface of most IFN-resistant cells. Isoform 1, isoform 2 and isoform 3 are expressed in the IFN-alpha sensitive myeloma cell line U266S. Isoform 2 and isoform 3 are expressed in the IFN-alpha resistant myeloma cell line U266R. Isoform 1 is not expressed in IFN-alpha resistant myeloma cell line U266R.
Sequence similarities	Belongs to the type II cytokine receptor family. Contains 3 fibronectin type-III domains.

**Post-translational  
modifications**  
**Cellular localization**

Phosphorylated on tyrosine residues by TYK2 tyrosine kinase.  
  
Membrane.

## Images



**All lanes :** Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] ([ab124764](#)) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa cell lysate

**Lane 2 :** IFNAR1 knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

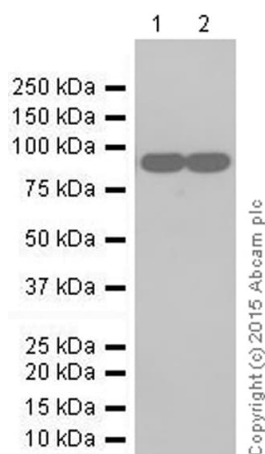
Performed under reducing conditions.

**Predicted band size:** 64 kDa

**Observed band size:** 116 kDa

This data was developed using [ab124764](#), the same antibody clone in a different buffer formulation.

Western blot: Anti-IFNAR1 antibody [EPR6244] ([ab124764](#)) staining at 1/1000 dilution, shown in green; Mouse anti-CANX [CANX/1543] ([ab238078](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, [ab124764](#) was shown to bind specifically to IFNAR1. A band was observed at 116 kDa in wild-type HeLa cell lysates with no signal observed at this size in IFNAR1 knockout cell line. To generate this image, wild-type and IFNAR1 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween<sup>®</sup> 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] - BSA and Azide free (ab247992)

**All lanes :** Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] ([ab124764](#)) at 1/1000 dilution (purified)

**Lane 1 :** Mouse brain tissue lysate

**Lane 2 :** Rat brain tissue lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Rabbit monoclonal [EPR6244] to Interferon alpha/beta receptor 1 ([ab124764](#)) at 1/1000 dilution

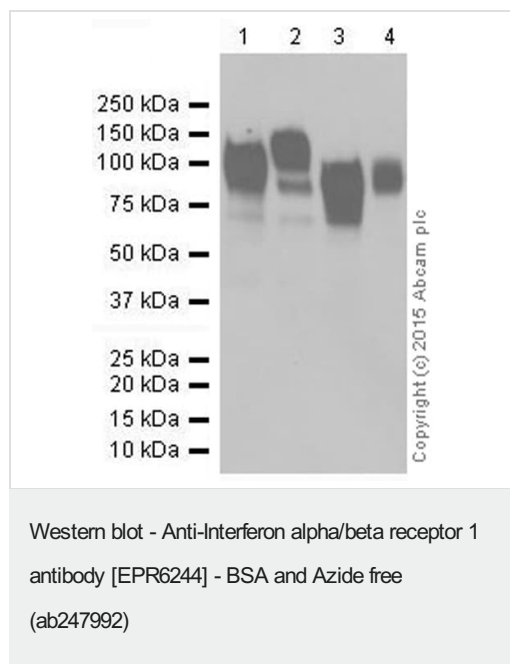
**Predicted band size:** 64 kDa

**Observed band size:** 90 kDa

This data was developed using [ab124764](#), the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFDM/TBST.

In mouse and rat tissue lysates this product detects a band in the region of 100 kDa, however we believe this band is non-specific and is not interferon receptor alpha as the immunogen for this antibody shares only 55% homology with the mouse and rat protein. In addition this band also migrates at a lower molecular weight than that detected in human samples.



**All lanes :** Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] ([ab124764](#)) at 1/1000 dilution (purified)

**Lane 1 :** HEK-293 whole cell lysate

**Lane 2 :** HeLa whole cell lysate

**Lane 3 :** LNCaP whole cell lysate

**Lane 4 :** SH-SY5Y whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

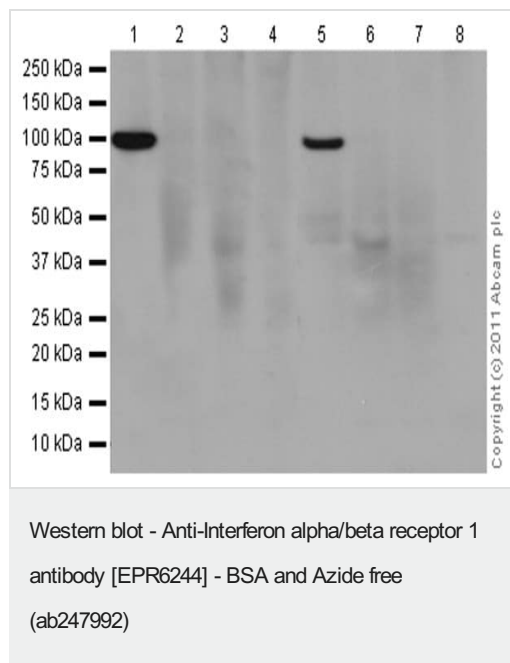
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 64 kDa

**Observed band size:** 90-130 kDa

This data was developed using [ab124764](#), the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFDM/TBST.



**All lanes :** Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] ([ab124764](#)) at 1/1000 dilution (unpurified)

**Lane 1 :** Mouse brain whole tissue lysate

**Lane 2 :** Mouse heart whole tissue lysate

**Lane 3 :** Mouse kidney whole tissue lysate

**Lane 4 :** Mouse spleen whole tissue lysate

**Lane 5 :** Rat brain whole tissue lysate

**Lane 6 :** Rat heart whole cell lysate

**Lane 7 :** Rat kidney whole cell lysate

**Lane 8 :** Rat spleen whole tissue lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat anti-rabbit IgG (H+L), peroxidase conjugated at 1/2000 dilution

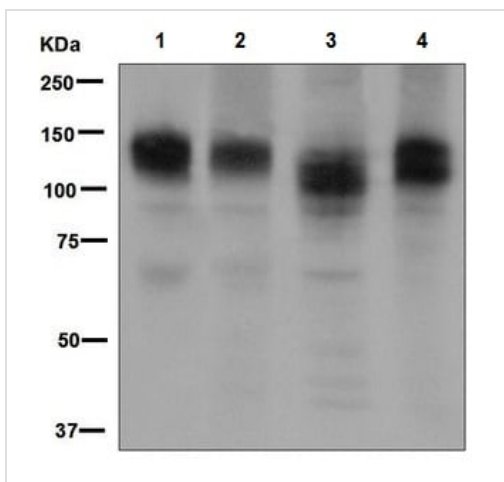
**Predicted band size:** 64 kDa

**Exposure time:** 3 minutes

This data was developed using [ab124764](#), the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFDM/TBST.

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Western blot - Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] - BSA and Azide free (ab247992)

**All lanes :** Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] ([ab124764](#)) at 1/1000 dilution (Unpurified)

**Lane 1 :** HeLa cell lysate

**Lane 2 :** HeLa cell lysate treated with IFN-alpha

**Lane 3 :** K562 cell lysate

**Lane 4 :** U937 cell lysate

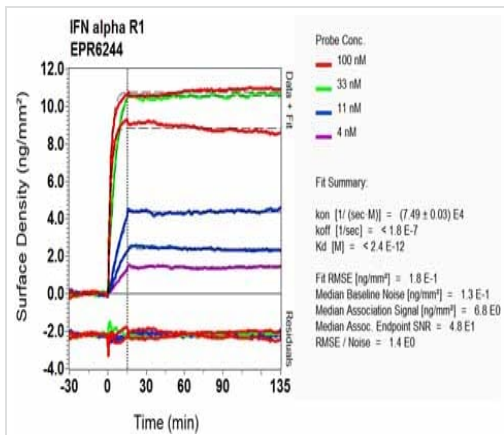
Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat anti-Rabbit HRP at 1/200 dilution

**Predicted band size:** 64 kDa

This data was developed using [ab124764](#), the same antibody clone in a different buffer formulation.



SPR Scanning - Anti-Interferon alpha/beta receptor  
1 antibody [EPR6244] - BSA and Azide free  
(ab247992)

This data was developed using [ab124764](#), the same antibody clone in a different buffer formulation. Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Interferon alpha/beta receptor 1 antibody  
[EPR6244] - BSA and Azide free (ab247992)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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